

February 8, 2012

MEMORANDUM TO: Robert J. Pascarelli, Chief
Projects Management Branch
Japan Lessons-Learned Project Directorate
Office of Nuclear Reactor Regulation

FROM: Lisa M. Regner, Senior Project Manager /RA/
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SUBJECT: SUMMARY OF JANUARY 19, 2012, PUBLIC MEETING ON
IMPLEMENTATION OF NEAR-TERM TASK FORCE
RECOMMENDATION 7.1, SPENT FUEL POOL
INSTRUMENTATION, RELATED TO THE FUKUSHIMA DAIICHI
NUCLEAR POWER PLANT ACCIDENT

On January 19, 2012, the U.S. Nuclear Regulatory Commission (NRC) staff held a public meeting with the Nuclear Energy Institute (NEI) and industry representatives to discuss implementation of the *Near-Term Task Force (NTTF) Recommendations for Enhancing Reactor Safety in the 21st Century* report, issued July 12, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML111861807). A list of meeting attendees is included as Enclosure 1.

This was the second meeting with stakeholders to discuss Recommendation 7.1; the first meeting was on December 15, 2011 (meeting summary dated December 29, 2011, ADAMS Accession No. ML11356A062). The meeting continued discussions on spent fuel pool (SFP) instrumentation, which is part of the Tier 1 recommendations under consideration for implementation without unnecessary delay. Recommendation 7.1 specifies ordering licensees to provide sufficient safety-related instrumentation that is able to withstand design-basis natural phenomena and to monitor key SFP parameters such as water level, temperature, and area radiation levels.

The NRC staff provided an update to the planned Order response including the accelerated schedule for all Tier 1 NTTF recommendations. The NRC staff plans to issue the Orders by March 11, 2012.

The NRC staff outlined the scope of the draft order including level conditions that would provide useful information to plant personnel in the unlikely event of a beyond design basis natural event challenging the existing safety systems of the SFP. The NRC emphasized that a key objective of the SFP instrumentation is to provide a reliable status to emergency responders so they can accurately prioritize the most safety significant actions. The NRC staff slides can be found in Enclosure 2, and obtained from ADAMS Accession No. ML12013A237.

The NEI Task Force presented its proposed NTTF Recommendation 7.1 approach in a January 9, 2012, NEI White Paper found in Enclosure 3, and at ADAMS Accession

No. ML12010A004. The NEI did not present to the NRC staff, but responded to the staff's questions on the January White Paper. The discussions focused on the lowest level indication point, instrument mounting and qualification criteria, and access criteria for the secondary monitoring system.

Specifically, the NRC staff stated that level is the key SFP indicator for a beyond design basis accident condition. The NRC staff provided the proposed performance and design criteria for a fixed primary level indicator and a fixed or portable secondary level indication. The industry representatives stated they are in general agreement with these criteria and that they intend to utilize FLEX equipment to support the proposed secondary level indication requirement. The FLEX concept was proposed by the industry in a letter submitted to the NRC on December 16, 2011 (ADAMS Accession No. ML11353A008). The NEI also stated that, following issuance of the Order, it would propose guidance on SFP instrumentation to the NRC for possible endorsement by the staff.

The meetings concluded with questions from public stakeholders. Stakeholders questioned the accuracy and calibration requirements of the proposed instrumentation, and proposed use of a fiber optic cable-type camera which could be credited as a secondary level indication device.

The meeting coordinator did not receive meeting feedback forms.

Enclosures:

1. List of Attendees
2. NRC slides
3. NEI handout

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Enclosure 1 (List of Attendees):

Enclosure 3 (NEI White Paper): ML12010A004

Meeting Summary: ML12031A185

Enclosure 2 (NRC slides): ML12013A237

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